

ESC VINYL SHEET PILES

PVC SHEET PILES



ESC Vinyl Sheet Piles also known as PVC Sheet Pile are a modern alternative for your project. It offers a lower cost than steel, wood or concrete alternatives. ESC Vinyl Sheet Pile is a strong, light-weight, UV and impact resistant product. The product is inert does not rust, corrode or crack.

50+ year design life - Due to its superior corrosion resistance, ESC Vinyl Sheet Piles can be installed with the confidence of structural integrity and appearance even after 50 years

Cost Efficiency - both from installation and long term cost savings due to superior corrosion resistance and lower price per unit metre material

UV Resistance - The PVC material is engineered with special compounds for resistance to the harmful ultraviolet rays

No toxic coatings - No coatings are required, which may be detrimental to the environment

Not Affected by Marine Borers - Small mollusks or crustaceans in the ocean can cause devastating effects over a period of time to traditional timber piling. Vinyl Sheet Piling offers an attractive alternative that is unaffected by these organisms.

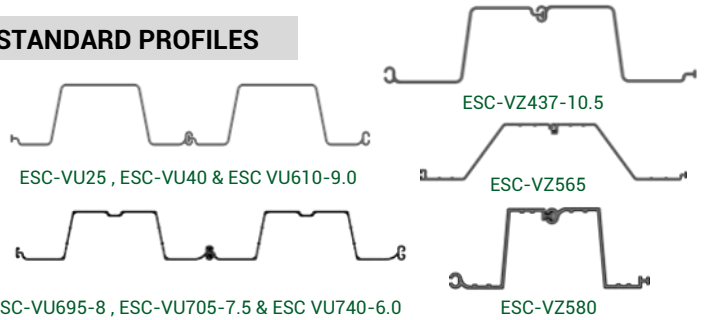
Easy Installation - Compared to steel sheet piles, vinyl sheet piles can be up to 40 times lighter per square meter making it much easier to handle. Driving can also be completed under certain conditions by pressing down with an excavator or a compact vibrohammer.



COMPARISON TO OTHER MATERIALS

	Vinyl (PVC)	Steel	Concrete	Wood
Cost	Low	High	Medium	Low
Weight	Light	Heavy	Very Heavy	Medium
Resistance to Corrosion	High	Low	N/A	N/A
Resistance to Chemicals & Sea Water Environment	High	Low	High	Low
Resistance to Cracking & Spalling	High	High	Medium	N/A
Environmentally Friendly	Yes	Yes	No	No
Aesthetics	High	Low	Medium	Medium
Installation	Easy*	Easy	Difficult	Moderate
Design Flexibility	High	High	Moderate	High

STANDARD PROFILES



Section	Width	Height	Thickness	Weight		Elastic Section Modulus	Moment of Inertia	Allowable Bending Moment	Maximum Bending Moment
	(w)	(h)	(t)	Per Pile	Per Wall				
	mm	mm	mm	kg/m	kg/m ²	cm ³ /m	cm ⁴ /m	kNm/m	kNm/m
ESC-VU25	500	160	6.0	7.2	14.4	502	4,013	10.3	20.6
ESC-VU40	600	230	7.5	11.1	18.5	920	10,574	18.8	37.6
ESC-VZ437-10.5	437	254	10.5	11.6	26.5	1,480	19,300	32.6	65.1
ESC-VU610-9.0	610	230	9.0	13.2	21.6	1,086	12,478	23.9	47.8
ESC-VU695-8	695	180	8.0	14.6	20.9	717	6,961	15.1	30.1
ESC-VU695-9	695	180	9.0	16.5	23.7	792	7,740	16.6	33.3
ESC-VU695-11	695	180	11.0	19.2	27.6	932	8,863	19.6	39.1
ESC-VU705-7.5	705	180	7.5	12.4	17.6	682	6,420	13.6	34.1
ESC-VU740-6	740	180	6.0	11.1	15.0	548	5,465	11.5	23.0
ESC-VZ565-9.0	565	245	9.0	15.3	27.1	1,042	12,768	22.9	45.8
ESC-VZ580-7.0	290	240	7.0	6.1	21.0	1,228	15,429	27.0	54.0
ESC-VZ580-9.0	290	240	9.0	6.5	22.4	1,462	18,739	32.2	64.3
ESC-VZ580-11.0	290	240	11.0	7.9	27.2	1,711	21,851	37.6	75.3

TEST STANDARD (to ASTM/GB Std.)

	ASTM	ISO	Min. Value/Range
Density		ISO 1183-3	1400-1480kg/m ³
Flexural Strength	ASTM D790	ISO 178	66MPa
Shore Durometer		ISO 868	75 Shore D
Modulus of Elasticity	ASTM D638	ISO 178/527-2	2.62GPa
Tensile Strength	ASTM D638		44MPa
Izod Impact Strength	ASTM D256		9kJ/m ²
Charpy Impact Strength		ISO 179-1	30kJ/m ²
Vicat Softening Temp.	ASTM D648	ISO 306	77°C



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